

FIGURE 1

M G S D R A R R G G G G P K D F G A G L K Y N S R H B K V N G L B 121 GGAAGGCGTGGAGTTCCTGCCAGTCAACAACGTCGAAGAAGGTGGAAAAGCATGGCCCGGGGGGCGCTGGTGCTGGTGCTGGCAGCCGTGCTGATCGGCCTCCTCTTGGTCTTGCTGGGAACGAGTCGG 241 CTTCCTGGTGTGCATTTGCAGTACCGGGACGTGCCTAGAAGGTCTTCAATGGCTACATGAGGATCACAAATGAGAATTTTGTGGATGCCTACGAGAACTCCAACTCCACTGAGTT FLVW HLQYRDVRVQRVFNGYMRITHENFVDATENSNSTEP 361 TGTAAGCCTGGCCAGCAAGGTGAAGGTGCCTGTACGCGGTGTACCGGGGGGTCCCATTCCTGGGCCCCCTACCACAAGGAGTCGCGCTGTGACGGCCTTCAGCGGGCAGGGCAGGGTCATCGC V S L A S K V K D A L K L L I S G V P F L G P Y H K E S A V I A F S E G S V I A Y Y W S E P S I P Q E L V E E A E R V M A E E R V V M L P P R A R S L K S P V 601 CACCTCAGTGGTGGCTTTCCCCACGGACTCCAAAACAGTACAGGACCAGGACAACAGCTGCAGCTTTGGCCTGCACGCCGGGGTGGACCTGATGGGCTTCACCACGCCCGGCTT T S V V A F P T D S K T V Q R T Q D N S T S F G L E A R G V E L M R F T T P G P PDSPTPABARČQ NALRGDADS VLSLTFRSFDLAS CDERGS 841 CGACCTGGTGACGGTGTACAACACCTGAGCCCCCATGGAGCCCCACGGCGCTGGTGCAGTTGTGGCACCTACCCTCCCACAAACCTGACCTTCCACCTCCCACAAACGTCCTGCC D L V T V Y N T L S P N E P E A L V Q L C G T Y P P S Y N L T F E S S Q H V L L 961 CATCACACTGATAACCAACACTGAGGGGGGCATCCCGGGTTTTGAGGGCCACCTTCTTCCAGCTGCCTAGGATGAGCAGCCGCTTTACGTAAAGCCCAGGGGACATCAACAG I T L I T N T E R R E P G F E A T F F Q L P R M S S C G G R L R E A Q G T F H S 1091 CCCCTACTACCCAGGCCACTACCCAACATTGACTGCACATGGAACATTGAGGTGCCCAACAACCAGCATGTGAAGCTGCAGCTTCAAATTCTTCTACCTGCTGGAGCCCGGGGCC PYYPGHYPPHID ČTWHIEVPHNQHVKVSFKFFILLEPGVP 1201 TGCGGGCACCTCCCCAAGGACTACGTGGAGATCAATGGGGGAAAATACTGCGGAGAGAGGTCCCAGTTCGTCGCCACCAGCAACAACAACAACAACAACATCACTCCACTCAGATCA A G T C P K D Y V E I N G E K Y C G E R S Q F V V T S N S N K I T V R F E S D Q 1321 GTCCTACACCGACACCGGCTTCTTAGCTGAATACCTCTCCTACGACTCCAGTGACCCATGCCCGGGGCAGTTCACGGGGCGGGTGTATCCGGAAGGAGCTGCCCTGTGATGG S I T D T G F L A E I L S I D S S D P C P G Q F T C R T G R C I R K E L R C D G 1441 CTGGGCCGACTGCACCGACACACACAGATGACCTCAACTGCAGTTGCGACGCCGGCCACCAGTTCACGTACAAGAACAAGTTCTGCAAGCCCCTCTTCTGGGTCTGCGACAGTGTGAACGA WADCTDESDELNCSCDAGEQFICKNKFCKPLFWVCDSVND 1561 CTGCGGAGACAACAGGGAGGAGGAGGAGGAGTGCAGTTGTCCGGCCCAGACCTTCAGGTGTTCCAATGGGAAGTGCCTCTCGAAAAACCCAGCAGTGCAATGGGAAGGACGACTTCGGGAACGG 1681 GTCCGACGAGGCCTCCTGCCCCAAGGTGAACGTCGTCACTTGTACCAAACACACCTACCGCTGCCTCAATGGGCTCTGCATGAGCAAGGGCAACGTGAGTGTGACGGGAAGGAGGACGACTG S D E A S C P K V N V V T C T K H T Y R C L N G L C L S K G N P Z C D G K Z D C 1801 TAGGACGGCTCAGATGAGAAGGACTGCGACTGCGGCTGCGGTCATTCACGAGACAGGCTCGTGTTGTTGGGGGCACGGATGCGGATGAGGGCCAGTGCCCCTGGCAGGTAAGCCTGCA S D G S D E K D C D C G L R S F T R Q A R V V G G T D A D E G E W P W Q V S L E ALGQG HICGASLIS PN WLVSAA(E) CYIDD RG FRYSD PT Q W T AFLGLEDQSQRSAPGVQERRLKRIISEPFFNDF1FDY(D)IA GRIFQAGV

-	7					<u>س</u>				4				. v o				
VNNVKKVEKH	NGYMRITNEN	SAVTAFSEGS	FVVTSVVAFP	HARČOWALRG	VQLČGTYPPS	GGRLRKAQGT	GVPAGTČPKD	SDOSYTDTGF LAEYLSYDSS	GHQETCKNKF	SQQCNGKDDC	EDCSDCSDEK	CGASLISPNW	ERRLKRIISH	AGKAIWVTGW	VGFLSGGVDS	RLPLFRDWIK		1. Cytoplasmic domain 2. Transmembrane domain
GGPKDFGAGL KYNSRHEKVN GLEEGVEFLP VNNVKKVEKH	GPGRWVVLAA VLIGLLLVLL GIGFLVWHLQ YRDVRVQKVF NGYMRITNEN		LPPRARSLKS	PGFPDSPYPA		FFQLPRMSSČ	EVPNNOHVKV SFKFFYLLEP GVPAGTCPKD	SDOSYTDTGF	DPCPGQFTCR TGRCIRKELR CDGWADCTDH SDELNCSCDA GHQFTCKNKF	OGCSCPAQTF RCSNGKCLSK SQQCNGKDDC	GDGSDEASCP KVNVVTCTKH TYRCLNGLCL SKGNPECDGK EDCSDCSDEBK	ROARVIGGTD ADEGEWPWOV SLHALGOGHI CGASLISPNW	LVSAMBCYID DRGFRYSDPT OWTAFLGLHD OSORSAPGVO ERRLKRIISH	PFFNDFTFDY @IALLELEKP AEYSSMVRPI CLPDASHVFP	PQQITPRMMC	CQGGGGGPLS SVEADGRIFQ AGVVSWGDGC AQRNKPGVYT		1. Cytoplas 2. Transme
KYNSRHEKVN	GIGFLVWHLQ	KDALKLLYSG	RVMAEERVVM	RGVELMRFTT	RGSDLVTVYN			NSNKITVRFH	CDGWADCTDH	QGCSCPAQTE	TYRCLNGLCL	ADEGEWPWQV	OWTAFLGLHD	AEYSSMVRPI	INQTTCENLI	AGVVSWGDGC		ဎ
GGPKDFGAGL	VLIGLLLVLL	FVDAYENSINS TEFVSLASKV KDALKLLYSG VPFLGPYHKE	VIAYYWSEFS IPQHLVEEAE RVMAEERVVM	TDSKTVQRTQ DNSCSFGLHA	RSFDLASCDE	YNLTFHSSON VLLITLITNT	PPNIDCTWNI	YVEINGEKYČ GERSQFVVTS NSNKITVRFH	TGRCIRKELR	CKPLFWVCDS VNDCGDNSDE	KVNVVTCTKH	ROARVGGTD	DRGFRYSDPT	OIALLELEKP	GHTQYGGTGA LILQKGEIRV INQTTCENLL	SVEADGRIFC	TO 40:2	teine residue ed glycosylation sit
MGSDRARKGG	GPGRWVVLAA	FVDAYENSNS	VIAYYWSEFS	TDSKTVQRTQ	DADSVLSLTE	YNLTFHSSON	FNSPYYPGHY	YVEINGEKYČ	DPCPGQFTCR	CKPLFWVCDS	GDGSDEASCP	DCDCGLRSFT	LVSAAHCYID	PFFNDFTFDY	GHTQYGGTGA	STADE@BDDD	ENTGY SER TO MOIL	* : Conserved cysteine residue
-	51	101	151	201	251	301	351	401	451	501	551	601	651	701	751	801	851	* Z

3

4. Ligand-binding repeat (class A motif) of LDL receptor like domain5. Serine protease

: Conserved amino acids of catalytic triad H, D, S

: Potential cleavage site

SDE : Conserved SDE motif

NXT]: Possible N-linked glycosylation site

3. CUB repeat

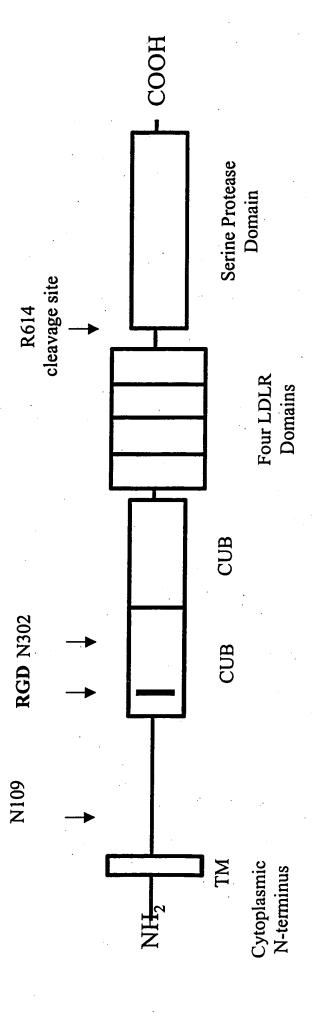


FIGURE 4

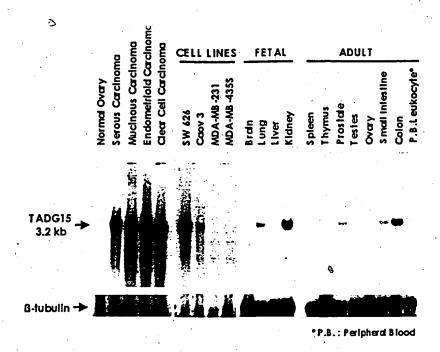


FIGURE 5

B

DOLETET ETOPO

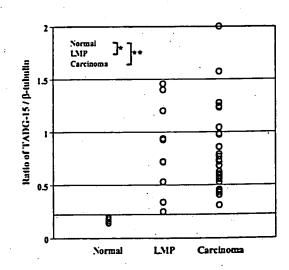
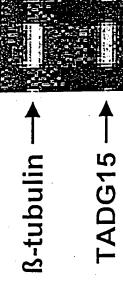


FIGURE 6



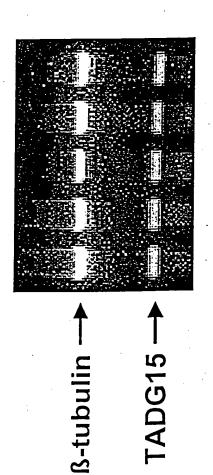
Caov 3

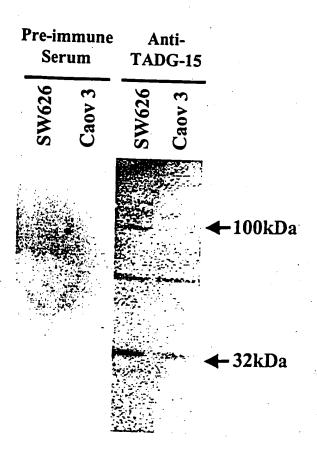
2M626

MDA-MB-231

MDA-MB-435S

Ovarian cancer
Breast cancer
Colon cancer
Prostate cancer





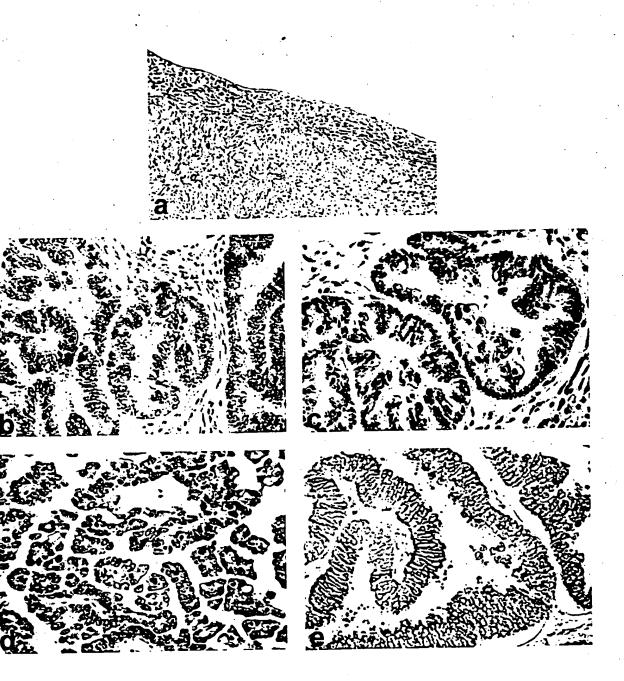


FIGURE 10

	hTADG15	. V00>>>	_				
	mEpithir		G KDFGAGI SQ	C KYNSRHEKVN DL-NM-	N GLEEGVEFL F	E VNNVKKVEK	H 5(
	hTADG15		•	•			
	mEpithin		A VLIGLLLVLI FSFLS-	MA-LFE	YRDVRVQKV	F NGYMRITNE HL	N 100 I
	hTADG15		s tefvslaskv	KDALKLLYSG	VPFLGPYHK	E SAVTAFSEGS	5 150
	mEpithin	-LT	IQ-	-ENE	V	K	-
	hTADG15		IPQHLVEEAE	RVMAEERVVM	LPPRARSLK	S FVVTSVVAFI	200
	mEpithin		PAVD	-AVT	A	L	•
	hTADG15) DNSCSFGLHA	RGVELMRFTT	PGFPDSPYP	A HARCOWALRO	250
	mEpithin	I-PRML	A	H-AAVT	N	V	•.
	hTADG15	DADSVLSLTF	RSFDLASCDE	RGSDLVTVYN	TLSPMEPHAI	VOLCGTYPPS	300
	mEpithin		V-P	HD	S7	7 -RFS	
	hTADG15	YNLTFHSSON	VLLITLITNT	ERRHPGFEAT	FFQLPRMSSC	GGRLRKAOGT	350
	mEpithin	L	-F-V	GL	K	V-SDT	
	hTADG15	FNSPYYPGHY	PPNIDCTWNI	EVPNNQHVKV	SFKFFYLLEP	GVPAGTCPKD	400
	mEpithin	-S	N	KRN	RLVD-	NV-S-T	
	hTADG15	YVEINGEKYC	GERSQFVVTS	NSNKITVRFH	SDQSYTDTGF	LAEYLSYDSS	450
	mEpithin	GS	S-	sH	H	И	
	hTADG15	DPCPGQFTCR	TGRCIRKELR	CDGWADCTDH	SDELNCSCDA	GHOFTCKNKF	500
	mEpithin	M-M-K		р-ү	RY-R-N-	TQ-	
	hTADG15	CKPLFWVCDS	VNDCGDNSDE	QGCSCPAQTF	RCSNGKCLSK	SOOCNGKDDC	550
	mEpithin		G	EGS-	KPQ	KN-	
	hTADG15	GDGSDEASCP	KVNVVTCTKH	TYRCLNGLCL	SKGNPECDGK	EDCSDGSDEK	600
1	mEpithin	D	SY	Q		T	
	hTADG15	DCDCGLRSFT	RQARVVGGTD	ADEGEWPWQV	SLHALGOGHI	CGASLISPNW	650
1	mEpithin	N	KN		L	D-	
	hTADG15	LVSAAHCYID	DRGFRYSDPT	OWTAFLGLHD	QSQRSAPGVQ	ERRLKRIISH	700
I	mEpithin	FQ-	-KN-KY- 1	ML- ·	KS	-LKT-	
	hTADG15	PFFNDFTFDY	DIALLELEKP	AEYSSMVRPI (CLPDASHVFP	AGKAIWVTGW	750
	wpithin	-S	S 1	VTV	T		
	hTADG15	GHTQYGGTGA	LILQKGEIRV 1	INQTTCENLL I	POQITPRMMC	VGFLSGGVDS	800
П	Epithin	KE		D-M -			
	hTADG15	CQGDSGGPLS	SVEADGRIFQ P	AGVVSWGDGC A	QRNKPGVYT	RLPLFRDWTK 1	850
П	Epithin		-A-KM	E		CSSGLDQ	,50
	hTADG15	ENTGV* (SQ.Q)				Ć	900
Ш	Epithin	RAHWGIÂAWT I	OSRPOTPTGM P	DMHTWIQER N	TDDIYAVAS	PPQHNPDCEL	,,,,
	hTADG15	HP (SEQ ID	NO: 112			ć	902
m	Epithin	HP (JUX JU	1(0.10)			-	.02



17-MAR-1997 LOCUS HSU20428 2900 bp DEFINITION Human SNC19 mRNA sequence. ACCESSION U20428 NID g1890631 KEYWORDS SOURCE human. ORGANISM Homo sapiens Eukaryotae: mitochondrial eukaryotes: Metazoa: Chordata: Vertebrata; Eutheria; Primates; Catarchini; Hominidae; Homo. REFERENCE 1 (bases 1 to 2900) Zheng, S., Cai, X., Geng, L., Cao, J., Ineng, L. and Zhi, Z.Z. SNC19 gene in Homo sapiens Unpublished AUTHORS TITLE **JOURNAL** REFERENCE 2 (bases 1 to 2900) AUTHORS Zheng, S. TITLE Direct Submission Submitted (30-JAN-1995) Shu Zheng, Canzer Institute, Inejiang Medical University, Hangzhou, 310009. Feoples Republic of China JOURNAL

	TADG15: TCAAGAGCGGCCTCGGGGTACCATGGGGA31EATCGGGGCCCGCAAGGGGGGGGCCCGGAAGGACTTCGGCGCGGGACT	81
	SnC19:	
9:	CARGTACARCTCCCGGCACAGAGAGGTGAATGGCTTGGAGGAAGGGGTTBLGTTCCTGCCAGTCALCARCGTCAAGAAGGTGGAAAAGCATGGCCCGGGG	181
182	occorgant of the confidence of	281
282	AGAAGGTCTTCAATGGCTACATGAGGATCACAAATGAGAATTTTGTGGATGCCTACGAGAACTCCAACTCCACTGAGTTTGTAAGCCTGGCCAGCAAGGT	381
101		200
392	CAAGGACGCGCTGAAGCTGCTGTACAGCGGAGTCCCATTCCTGGGCCTTACCACAAGGAGTCGGTTGTGACGGCCTTCAGCGAGGGCAGCGTCATCGCC	481
201	CARGRACGCGCTGARGCTGCTGTACAGCGGAGTCCCATTCCTGGGCCCTTACCACARGGAGGTCGCCTGTGACGGCCTTCAGCGAGGGCAGCGTCATCGCC	300
492	TACTACTGGTCTGAGTTCAGCATCCCGCAGCACCTGGTGGAGGAGGAGGCCGTCATGGCCGCGAGGAGGAGCATGATGCTGCCCCCCGGGGCGCCCT	581
301	TACTACTGGTCTGAGTTCAGCATCCCGCAGCACCTGGTTGAGGAGGCCGAGCGCGTCATGGCC.AGGAGCGCGTAGTCATGCTGCCCCCGGGGGCGCGCT	399
582	CCCTGAAGTCCTTTGTGGTCACCTCAGTGGTGGCTTTCCCCCACGGACTCCAAAACAGTACAGAGGACCCAGGACAACAGCTGCAGCTTTGGCCTGCACGC	681
400	CCCTGARGTCCTTTGTGGTCACCTCAGTGGTGGCTTTCCCCACGGACTCCRARACAGTACAGAGGACCCAGGACAACAGCTGCAGCTTTGGCCTGCACG.	498
683	CCGCGGTGTGGAGCTGATGCGCTTCACCACGCCCGGCTTCCCTGACAGCCCCGCTCACCCCGCTCATGCCCCGTTGCCAGTGGGCCCTTGCGGGGGGACGCCGAC	781
499	CCGCGGTGTGGAGCTGATGCGCTTCACCACG.CCGGCTTCCCTGACAGGGCGGTACCCGGGTCATGCGCGCTGCCAGTGGGCTGCGGGGGACG.CGAC	592
782	TCAGTGCTGAGCCTCACCTTCCGCAGCTTTGACCTTGCGTCCTGTGACGAGGCGGGGGAGCGACCTGGTGACGGTGTACAACACCCTGAGCCCCAT	876
593	GCAGTGCTGAGCTGAGCTGACTCGCAGC.TTGACTGCGCCTC3ACGAGCGCGGCGGCGCGCGCGGTGAC.GTGTACAACACCCTGAGCCCCAT	686
877	GGAGCCCCACGCCCTGGTGCAGTTGTGTGGCACCTACCCCCCCC	974
687	GEAGCCCCACG. CCTGGTG AGTGTGTGGCACCTACCCTCCTACAACCTGACCTTCCACTCCCTCC	783
975	CCAACACTGAGCGGCGCATCCCGGCTTTGAGGCCACCTTCTTCCAGCTGCTAGGATGAGCAGCTGTGGAGGCCGCTTACGTAAAGCCCAGGGGACATT	1074
784	CCARCACTGACGCGGCATCCCGGCTTTGAGGCCACCTTCTTCCAGCTGCCTAGGATGAGCAGGTGGAGGCCGCTTACGTAAAGCCCCAGGGGACATT	881
1075	CARCAGCCCCTACTACCCAGGCCACTACCCACCCCAACATTGACTGCCCCTACTACTGAGGTGCCCCAACAACCAGCATGTGAAGGTGAGGTTCAAATTC	1174
682	CAACAGCCCCTACTACCCAGGCCACTACCCAACATTGACTGCACATGGCACATGGCACATCGCACCAGCCATGTGAAGGTGCGCCTACAACCAGCCATGTGAAGGTGCGCTTCAAATTC	981
1175	TTCTACCTGCTGGAGCCCGGCGTGCCTGCGGGGCACCTGCCCCAAGGACTACGTGGAGATCAATGGGGAAAATACTGCGGAGAGAGA	1274
982	TTCTACCTGCTGGAGCCCGGCGTGCCTGCGGGCACCTGCCCCAAGGACTACGTGGAGATCAATGGGGAGAAATACTGCGGAGAGAGA	1081
1275	TCACCAGCAACAACAACAACAACAACATCACTCCACTCAGATCAGTCCTACACCCGACACCGGCTTCTTAGCTGAATACCTCTCCTACGACTCCAGTGA	1374
1082	TCACCAGCAACAGCAACAAGATCACAGTTCGCTTCCACTCAGATCAGTTCTTACCCGACTCGTAGACTAGCTGAATACCTCTCCTACGACTCCAGTGA	1161
1375	CCCATGCCCGGGGCAGTTCACGTGCCGCACGGGGGGGGTGTATCCGGAA33AGCTGCGCTGTGATGGCTGGGCCGACTGCACCGACCACAGCGATGAGCTC	1474
1192	CCCATGCCCGGGGCAGTTCACGTGCCGCACGGGGCGGTGTATCCGGAAGGAGCTGCGCTGTGATGGCTGGG.CGACTGCACCGACCACAGCGATGAGCTC	1290
1475	AACTGCAGTTGCGACGCCGGCCACCAGTTCACGTGCAAGAACAAGTTCT3CAAGCCCCTCTTCTG3GTCTGCGACAGTGTGAACGACTGCGGAGACAACA	1574
1281	AACTGCAGTTGCGACGCCGGCCACCAGTTCACGTGCAAGAGCAAGTTCTSCAAGCTCTTCTGSGTCTGCGACAGTGTAACGAGTGCGGAGACAACA	1377

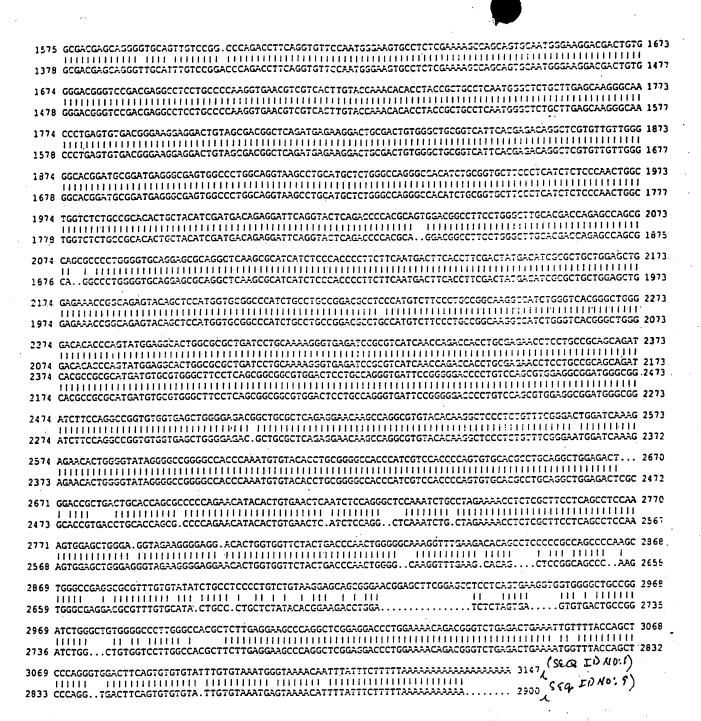


FIGURE 12-2